

Solid State Soft Starting Type G & E



General

Joslyn Clark Fire Pump Controllers are designed and listed specifically for fire pump service. These controllers meet or exceed all requirements of the National Fire Protection Association Standard NFPA 20, are listed by Underwriters Laboratories Inc., and approved by the Factory Mutual System.

Solid State reduced voltage fire pump controllers provide smooth, step less transition from initial voltage to full run voltage. This results in soft starting with smooth acceleration and deceleration. A line contactor bypasses the solid state controller after a 6 Sec. delay. Starting line current may be adjusted down to 200% of rated full-load amperes. This controller also provides a soft stop feature which reduces motor RPM, pump output pressure and flow. If during the soft stop, the pressure goes below the starting pressure, the controller will immediately go into soft start and bring the motor back up to speed. Solid State Reduced Voltage Controls are Combined Manual and Automatic starting.

Standard Equipment

- Enclosure Type 3R for G10620, Enclosure Type 2 for E10620
- Microprocessor based design using distributed microprocessors
- Short circuit withstand rating amps 100,000 (standard)
- Automatic Start responsive to a change in water pressure.
- Stainless Steel Pressure Transducer, 0-600 PSI, side mounted internally
- Automatic Stop via Programmable Running Period Timer.
- Sequence Delay Start via Programmable setpoint.
- Standard Units programmed for Manual Stop and No Delay on Start
- Deluge start or Remote Automatic Start from other fire protection equipment having a normally closed contact which opens to start.
- Manual Start and Stop pushbuttons on Operator Interface Module.
- Manual Remote Start utilizing remote mounted, normally open contacts that close to start. Controller must be Manually Stopped at the controller.
- Emergency Start by simply lifting the mechanical start handle.
- Operator Interface Module includes 2 Line, 20 Character LCD display of Line Pressure and Cut In / Cut Out Setpoints, viewing of Events with Date and Time stamp, Real Time Data with all 3-phase voltages, line-line currents.
- PMR, microprocessor based relay which provides locked rotor protection, voltage pickup, and current pickup for display on Operator Interface Module. PMR is factory set for horsepower and voltage, no field adjustment required.
- Programmable Weekly or Monthly Timer to automatically start and run the pump for Preset time utilizing a Test Drain Solenoid. Manual Testing also.

Visual Indicators and Alarms

• Visual indicators are provided to indicate the following:

Power Available	Phases Reversed	Pump Run	System Alarm
Comm Status	Start Delay	Low Pressure	RPT On

- 3 phase Currents, and 3 Phase-to-Phase Voltages on two-line Display.
- 2 line Pressure Display with Cut IN / Cut OUT Pressure Settings.
- 2 Sets OF SPDT contacts for remote alarm of Pump Run, Power Available, Phase Reversal.
- Built-in Pressure Recorder provides a review of Max, Min Pressures.
- Ethernet Modbus TCP Communications for Event History Information
- (With Optional Automatic Transfer Switch), Alternate Isolating Switch Open and Transfer Switch Position Indicators and Contacts
- System Fault Messages: Reverse Phase, Locked Rotor, Motor Overload, Low Voltage, High Voltage, Fail to Start, Low Frequency, High Frequency, Voltage Unbalance, Power Not Available, No Comm with LRD, Low Temperature, Low Suction, No Comm with I/O Board.



